

WHAT IS CLAIMED IS:

- 1                    1.        A braided tubular structure comprising a plurality of component  
2   tubular members each having longitudinal lumens, woven radially in and out to form said  
3   substantially tubular braided structure.
- 1                    2.        The braided tubular structure of claim 37 wherein the component  
2   tubular members are comprised of polymeric tubing.
- 1                    3.        The braided tubular structure of claim 37 wherein the component  
2   tubular members are comprised of metallic tubing.
- 1                    4.        The braided tubular structure of claim 39 where the metallic tubing  
2   comprises a superelastic alloy.
- 1                    5.        The braided tubular structure of claim 40 wherein the superelastic alloy  
2   comprises nickel and titanium.
- 1                    6.        The braided tubular structure of claim 37 further comprising at least  
2   one polymeric tubular member exterior to said substantially tubular braided structure.
- 1                    7.        The braided tubular structure of claim 42 wherein said braided tubular  
2   structure is of a size and shape suitable for introduction into a human blood vessel.
- 1                    8.        The braided tubular structure of claim 37 where said plurality of  
2   component tubular members longitudinal lumens are fluidly connected to a plenum at least  
3   one of the distal and proximal ends.